At the "Friedrich List" Faculty of Transport and Traffic Sciences, the Institute for Railway Systems and Public Transport seeks to appoint an outstanding candidate for the Chair (W3) of Railway Operations starting as soon as possible.

The chair conducts research on advancing concepts and models for railway operations in view of the growing importance of railway and public transport in intermodal mobility networks of passenger and freight and the desired transition towards sustainable transport systems. The focus in teaching and research is on designing and modelling railway operations and the associated use of resources to increase the attractiveness and sustainability, performance and economic efficiency of railway systems.

Trends like digitization, automation, dynamically increasing capacity requirements as well as new mobility services for passenger and goods transport shall be transferred into optimized and sustainable operational concepts for railways and public transport by using innovative methods, in particular from the fields of railway operations, operations research, machine learning, modelling and simulation.

As the chair holder, you (m/f/x) will represent the scientific field of railway operations in teaching and research. You will have a teaching obligation within the master and diploma programs at the "Friedrich List" Faculty of Transport and Traffic Sciences as well as in the teaching export to other faculties at TU Dresden. We expect your participation in academic self-administration and your willingness to teach in English and in German. One of your main tasks will be the successful acquisition of third-party funding from federal (DFG, BMBF et al.) or EU sources, as well as from industry partners and therefore assume experience in externally funded research. Your willingness to cooperate with other chairs of the "Friedrich List" Faculty of Transport and Traffic Sciences, other structural units at TU Dresden and with other institutions within the DRESDEN-concept alliance is of particular importance for us.

We are looking for a dynamic and dedicated personality with an international academic track record in the field of railway operations. We invite applications with a proven expertise in at least two of the following areas:

- Analysis, modelling and design of technologies, processes and systems for railway operations,
- Digitization and automation of planning, operations and dispatching in railway transport,
- Artificial intelligence or machine learning methods in railway operations processes and
- Railway operations management.

We would also like to see interest in and innovative ideas for the modernization of our faculty's railway operations laboratory, which shall be adapted to current scientific issues under the leadership of this chair.

We welcome your application if you hold a university degree in the field of railway construction, civil engineering or related relevant disciplines, possess pedagogical aptitude as well as the special capability for scientific work, which is usually proven by a doctoral/PhD degree as well as further outstanding academic achievements. The latter can be demonstrated via a habilitation/postdoctoral qualification, a junior professorship, or equivalent. Applicants must fulfil the employment qualification requirements of § 58 of the Act on the Autonomy of Institutions of Higher Education in the Free State of Saxony (SächsHSFG).
If you have any questions regarding the call for applications, please contact the chairwoman of the appointment committee, Prof. Dr.-Ing. Regine Gerike (+49 351 463- 36501).

TU Dresden seeks to employ more female professors. Hence, we particularly encourage women to apply. Applications from candidates with disabilities or those requiring additional support are very welcome. The university is a certified family-friendly university and offers a Dual Career Service. If you have any questions about these topics, please contact the Equal Opportunities Officer of the “Friedrich List” Faculty of Transport and Traffic Sciences (Susanne Wunsch, +49 351 463-36689) or the Representative of Employees with Disabilities (Roberto Lemmrich, +49 351 463-33175).

Please send your application with a curriculum vitae in tabular form, a description of your scientific career, a list of publications and previous teaching activities, including the results of the teaching evaluation (preferably of the last three years) as well as a copy of the certificate of the highest academic degree, preferably in electronic form (one PDF file) via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it to dekanat.vw@tu-dresden.de or as a hard copy to: TU Dresden, Dekanin der Fakultät Verkehrswissenschaften „Friedrich List“, Frau Prof. Dr.-Ing. Regine Gerike, Helmholtzstr. 10, 01069 Dresden, Germany by November 21, 2022 (stamped arrival date of the university central mail service applies).

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis.